U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute	for form.1449A/P	ro	•	Complete if Known			
INEO	RMATIO	Disc	OCUDE	Application Number	Divisional of 10/132,561		
				Filing Date	Herewith		
STAT	TEMENT I			First Named Inventor	Notomi et al.		
	(use as many she	ets as necesso	לעיו	Art Unit .	Je Be Assigned 1637		
				Examiner Name	To Be Assigned CM Sabil		
Sheet	. 1	of	2	Attorney Docket Number	201487/1024 (E2-001PCT-US)		

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No.1	U.S. Parent Document Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Cohimus, Lines, Where Relevant Passages of Relevant Figures Appear
17	1	US-4,683,202	07/28/1987	Mullis	
7/	2	US-5,270,184	12/14/1993	Walker et al.	
- 1	3	US-5,525,462	06/11/1996	Takareda et al.	
	4	US-5,595,891	01/21/1997	Rose et al.	
	5	US-5,612,199	03/18/1998	Western et al.	
	6	US-5,712,124	01/27/1998	Walker	
	7	US-5,874,260	02/23/1999	Cleuziat et al.	
	8	US-6,025,139	02/15/2000	Yager et al.	
	9	US-6,033,881	03/07/2000	Himmler et al.	
(Yo	10	US-6,410,278	06/25/2002	Notomi et al.	
W	-	US-			
	-	US-			
		US-			
	1	US-			
	1 :	US-	• •		
·	1	US-		·	
	T	US-			
	1	US-		· ·	
	1	US-			
· ·	1 .	US-			

		FC	REIGN PATENT	DOCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Kind Code Country Code Number (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т•
()	11.	EP 0 971 039 A2	01/12/2000	Enzo Diagnostics		
Y-	12	WO 99/66071	12/23/1999	Zeneca Limited		
<u> </u>	13	WO 96/01327	01/18/1996.	Labimap S.A.		
/ Ko	14	EP 0 549 107 A1	10/09/1992	Syntex (U.S.A.) Inc.		
	1		•			
			:			
	T :					
	T.					
	1					
•						
Examiner Signature	1	1000		Date Considered	1/23/07	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant,

Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222 uspto gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE to respond to a collection of information unless it contains a valid OMB control number.

Substitute	for form 1449B/PTC)		Complete if Known				
INFO	RMATION	DISC	LOSURE	Application Number	10	782040		
1				Filing Date				
SIAI	STATEMENT BY APPLICANT			First Named Inventor				
	(use as many sheet	is as necess	ary)	Group Art Unit	1 10	37		
				Examiner Name	ح ا	M 3052		
Sheet	2	of	2	Attorney Docket Number				

	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
15	Whitcombe et al., "Detection of PCT Products Using Self-Probing Amplicons and Fluorescence," Nature Biotechnology 17:804-807 (1999)	
16	Lizardi et al., "Mutation Detection and Single-Molecule Counting Using Isothermal Rolling-Circle Amplification," Nature Genetics 19:225-232 (1998)	
17	Stratagene Catalog, "Gene Characterization Kits," page 39 (1988)	
	·	-
		-
		-
Examiner Signature	Date Considered 123 07)

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<i>)</i>	Substitute for form 1449A/PTO				Complete if Known			
Wicere: Die INF		RMATION I)ISC	LOSURE	Application Number	10/782,040		
		TEMENT BY			Filing Date	2/19/04		
	SIA				First Named Inventor	Notomi, et al.		
	*	(use as many sheets o	us necesso	עי)	Art Unit	1646 [637		
					Examiner Name	CM Babic		
	Sheet	1	of	1	Attorney Docket Number	201487/1024 (E2-001PCT- USD2)		

			U.S. PATENT DO	CUMENTS		
Examiner Initials	Cite No. ¹	U.S. Patent Document Number - Kind Code ² ((f. known))	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear	
11/2	1	US-2003/0170681 A1	09/11/2003	Rabbani E, et al		
4	2	US-2003/0104460 A1	06/05/2003	Rabbani E, et al		
$\neg \vdash$	3	US-2003/0170682 A1	09/11/2003	Rabbani E, et al		
	4	US-2003/0165936 A1	09/04/2003	Rabbani E, et al		
	5	US-2003/0165938 A1	09/04/2003	Rabbani E, et al		
	6	US-6743605 B1	06/01/2004	Rabbani E, et al		
	7	US-2003/0165939 A1	09/04/2003	Rabbani E, et al		
<u> </u>	<u> </u>	US-				
		US-			·	
		US-				
	↓	US-				
	 	US-				
	 	US-				
	<u> </u>	US-			· · · · · · · · · · · · · · · · · · ·	
	ļ	US-				
		US-				
	-	US-	 	•		
	—	US-	ļ		• •	
		US-	ļ		· ·	
	ı	US-	I	i	1	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.1	Foreign Patent Document		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Cohimns, Lines, Where Relevant Passages or Relevant		
			ind Code (if known)	MM-DD-YYYY		Figures Appear	· T *	
	 							
Examiner Signature			2	<u>e</u>	Date Considered	1/23/07		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222 uspto gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
to respond to a collection of information unless it contains a valid OMB account.

Sasanu	SACTION AND PAGE OF CONTROL OF THE PAGE OF			Complete if Known		
ADEN	DRMATION I) ISC	LOSUDE	Application Number	10/782,040	
				Filing Date	February 19, 2004	
51A	STATEMENT BY APPLICANT			First Named Inventor	Notomi et al.	
	(use as many sheets	as necess	ary)	Art Unit	1646 1637	
				Examiner Name	C To Be Assigned CM Basic	
Sheet	Sheet 1 of 1		Attorney Docket Number	201487/1024 (E2-001PCT-USD2)		

		<u>. </u>	U.S. PATENT DOCUM	ENTS	
Examiner Initials	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number - Kind Code (if known)	MM-DD-1111	Applicant of Cites Document	Figures Appear
	1	US-5,714,323	02/03/1998	Ohshima et al.	
		US-			
		US-			
		US-			· ·
		US-	,		
		US-			

		FC	REIGN PATENT D	OCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Kind Code ² Country Code ³ Number ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
()	2	WO 97/04131	02/06/1997	Dewhirst		
					· · · · · · · · · · · · · · · · · · ·	
		OTHER PRIOR	ART – NON PATENT I	LITERATURE DOCUMENTS	·	
Examiner Initials	Cite No.		ımal, serial, symposium,	RS), title of the article (when appro catalog, etc.)., date, page(s), volum country where published.		T²
		P				
		0 _				
Examiner	11			Date		
Signature				Considered	1/23/07	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

1/23/07

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ANFILL	OF Description of the Property			Complete if Known		
INFORMATION DISCLOSURE				Application Number	10/782,040	
				Filing Date	February 19, 2004	
SIA	STATEMENT BY APPLICANT			First Named Inventor	Notomi et al.	
	(use as man	y sheets as neces	ssary)	Art Unit	1646- 1637	
				Examiner Name	- To Be Assigned CM Babic	
Sheet 1 of 1			1	Attorney Docket Number	201487/1024 (E2-001PCT-USD2)	
				U.S. PATENT DOCUMENTS		

			U.S. PATENT DOCUM	ENTS	
Examiner Initials*	Cite No.	U.S. Patent Document Number - Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
(X	1	US-5,972,618	10/26/1999	Bloch	
		US-			• •
		US-			
		US-			•
		US-			
		US-			
		US-			

		FO	REIGN PATENT D	OCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Kind Code Country Code Number (f known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ*
	-					
		OTHER PRIOR A	RT – NON PATENT L	ITERATURE DOCUMENTS		
Examiner Initials Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), No. item (book, magazine, journal, serial, symposium, catalog, etc.)., date, page(s), volume-issue publisher, city and/or country where published.						T ²
	·	, , , , , , , , , , , , , , , , , , ,			- · · · · · · · · · · · · · · · · · · ·	<u> </u>
	1	Δ .				
Examiner	1	1:15	1.	Date	122/22	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Signature

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO Complete if Known 10/782,040 **Application Number** INFORMATION DISCLOSURE February 19, 2004 Filing Date STATEMENT BY APPLICANT Notomi et al. First Named Inventor (use as many sheets as necessary) 1646 1637 Art Unit Christopher M. Babic Examiner Name Sheet 1 of Attorney Docket Number 201487/1024 (E2-001PCT-USD2)

			U.S. PATENT DOC	UMEN	rs				
Examiner Initials	Cite No. ¹	U.S. Patent Document Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY		Name of Patentee or Applicant of Cited Docum	ent	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
							·		
		·							
			,				•		
		FO	REIGN PATENT DO	OCUME	ENTS				
Examiner Initials	Cite No. ¹	Foreign Patent Document Kind Code ³ Country Code ³ Number ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Czed Document		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		Té	
			· ·						
				-				~	
	1			1	******	 			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials						
(4)	1	NOTOMI et al., "Loop-Mediated Isothermal Amplification of DNA," Nucleic Acids Res. 28(12):e63 (2000)				
		·				

Examiner Signature			Date Considered	1	123	07
	 _	 			$\overline{}$	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.